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- (73) Titulaire: SERD Société d'Etude et de Réalisation de Disjoncteurs 67100 Strasbourg (FR)

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- (56) Documents cités:

EP-A- 0 295 415

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EP0614259B1: Differential circuit breaker for protection against fault currents and overvoltages German French PTitle:

Differential circuit breaker with overcurrent and overvoltage protection - uses conventional current trip with overvoltage detector acting on overcurrent trip, and has delay on overvoltage detector <u>Derwent Record</u>i PDerwent Title:

**B1** Patent <sup>1</sup> (See also: <u>EP0614259A1</u> ₽ Kind: Country:

**EP** European Patent Office (EPO)

Hugel, Philippe; PInventor: SERD Société d'Etude et de Réalisation de Disjoncteurs News, Profiles, Stocks and More about this company P Assignee:

1998-07-29 / 1994-03-03 Published / Filed:

EP1994000400457 Application

Number:

H02H 3/33; H02H 3/20; PIPC Code:

H02H3/20; H02H3/33; **PECLA** Code: FR1993000002574 1993-03-Priority Number:

This differential circuit breaker is of the type including an integrating current transformer and a [From equivalent <u>EP0614259A1]</u> Abstract:

(2) for sensing an overvoltage, connected to the trigger circuit (7) in off at least one phase of the mains and, on the other hand, a circuit transformer, controls, when it is switched, a trip switch which cuts trigger circuit with, on the one hand, a first electronic switch which actuated by the fault current appearing in the integrating current

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delay element (17) generating a triggering delay being provided, the circuit for sensing an overvoltage (2) is mounted in parallel with this consequently, the trip switch (8), and it is characterised in that, a appearing, actuates the first electronic circuit breaker (14), and, such a way that this circuit (2), in the event of an overvoltage time-delay element (17)

Differential circuit breaker for protection against fault currents and overvoltages (EP0614259B1)

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premier interrupteur électronique, actionné par le courant de défaut commande, lors de sa commutation, un déclencheur qui coupe au L'invention concerne d'une manière générale les interrupteurs différentiels du genre comportant un transformateur de courant otalisateur et un circuit de déclenchement et dans lesquels un apparaissant dans le transformateur de courant totalisateur, moins une phase du réseau.

Prirst Claim:

comprising a summing current transformer and a tripping circuit and 2) actuates the first electronic switch (14) and consequently the trip selective switch which involves an inherent current, the circuit (2) for said time delay member (17) to deliver the supply power necessary controls upon switching thereof a trip device (8) which cuts at least such a way that in the event of an overvoltage occurring the circuit detecting an overvoltage is connected to the tripping circuit (7) in detecting an overvoltage is connected at the output in parallel to producing a tripping time delay being provided, and thus being a one phase of the network and on the other hand a circuit (2) for to the trip device (8), and that said time delay member (17) is a Show all claims 1. A differential protective switch of the kind device (8), characterised in that, a time delay member (17) for nefault current appearing in the summing current transformer n which on the one hand a first electronic switch actuated by

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	83	DE19514641A1	1996-10-24	996-10-24 Flohr, Peter, Dipl	Heinrich Kopp AG, 63796 Kahl,	II, Fehlerstromschutzschalter

**9**Other Abstract

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